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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/770,657	02/03/2004	John Nelson	PB0308	4149
	7590 07/06/200 CARE BIO-SCIENCES	EXAMINER		
PATENT DEPARTMENT 800 CENTENNIAL AVENUE PISCATAWAY, NJ 08855			HORLICK, KENNETH R	
			ART UNIT	PAPER NUMBER
•			1637	
			MAIL DATE	DELIVERY MODE
•		•	07/06/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/770,657	NELSON, JOHN				
Office Action Summary	Examiner	Art Unit				
	Kenneth R. Horlick	1637				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period in Failure to reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be twill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDON	N. imely filed in the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 14 M	<u>fay 2007</u> .					
2a)⊠ This action is <b>FINAL</b> . 2b)☐ This	This action is <b>FINAL</b> . 2b) This action is non-final.					
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under be	Ex parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.				
Disposition of Claims		•				
4) Claim(s) 1-3,6,8,12-19,22,25,28 and 31-36 is/s	4) Claim(s) <u>1-3,6,8,12-19,22,25,28 and 31-36</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>1-3,6,8,12-19,22,25 and 28</u> is/are allowed.						
6)⊠ Claim(s) <u>31-36</u> is/are rejected.	_					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Offic	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority document</li> <li>2. Certified copies of the priority document</li> <li>3. Copies of the certified copies of the priority</li> </ul>	ts have been received. ts have been received in Applica	tion No				
application from the International Burea	·	Tod III tillo National Otago				
* See the attached detailed Office action for a list		ved.				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)						
Paper No(s)/Mail Date	6)					

Application/Control Number: 10/770,657 Page 2

Art Unit: 1637

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

New claims 31 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beach et al. (US 2003/0082559, filed 01/22/02).

Beach et al. disclose the claimed methods, see paragraphs 0042-0046, 0055, and 0450-0481, except for converting cDNA into double-stranded, blunt-ended cDNA for self-ligation to form circular products. In paragraph 0044, Beach et al. disclose the use of cDNA in general.

One of ordinary skill in the art would have been motivated to apply double-stranded, blunt ended cDNA as the cDNA to be circularized in the method of Beach et al. because, as the skilled artisan was well aware, cDNA was conventionally prepared in this double-stranded form. That is, it was well known and common knowledge in the art to prepare and clone double-stranded, blunt-ended cDNA. Thus, this clearly would have been suggested as a good means of carrying out the method of Beach et al. It would have been *prima facie* obvious to one of ordinary skill in the art at the time of the invention to carry out the claimed methods.

Art Unit: 1637

2. Claims 32-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beach et al. in view of Cleuziat et al.

These claims are drawn to the methods as discussed and rejected above, further comprising the use of primers comprising RNA promoter sequences and transcribing amplified DNA using RNA polymerase.

Beach et al. do not disclose the use of primers comprising RNA promoter sequences and transcribing amplified DNA using RNA polymerase.

Cleuziat et al. disclose the use of primers comprising RNA promoter sequences and transcribing amplified DNA using RNA polymerase (see Fig. 2 and column 7, lines 18-45).

One of ordinary skill in the art would have been motivated to modify the method of Beach et al. by using primers comprising promoter sequences because Cleuziat et al. taught that such primers advantageously facilitate the production of RNA using RNA polymerase from amplification products. It would have been *prima facie* obvious to one of ordinary skill in the art at the time of the invention to carry out the claimed methods.

3. Claims 1-3, 6, 8, 12-19, 22, 25, and 28 are allowable. Independent claims 1 and 14 require self-ligating first-strand cDNA without first removing RNA from a cDNA:RNA duplex formed from reverse transcription. This step is not taught or suggested in the prior art.

Art Unit: 1637

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth R. Horlick whose telephone number is 571-272-0784. The examiner can normally be reached on Monday-Thursday 6:30AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on 571-272-0782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/770,657 Page 5

Art Unit: 1637

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

While Ph.D. Kenneth R Horlick Primary Examiner Art Unit 1637

07/02/07